

APR. 15. 2004 9:37AM

ABBOTT LABSP3/2

NO. 3536
NO. 5550

P. 2
P. 2/5

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Mukerji et al.

Serial No.: 09/624,670

Filed: July 24, 2000

For: ELONGASE GENES AND USES
THEREOF

Case No.: 6407.US.P2

Examiner: Ramirez, D.

Group Art Unit: 1652

I hereby certify that this paper
(along with any paper referred to
as being attached or enclosed) is
being sent by facsimile
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below on the date shown below:

(571) 273-0938 = fax #

Cheryl L. Becker 4/15/04
Cheryl L. Becker Date

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

We, AMANDA E. LEONARD, PRADIP MUKERJI, JENNIFER M.
PARKER-BARNES and JENNIFER THURMOND, citizens and residents
of the United States of America, and we, TAPAS DAS and
YUNG-SHENG HUANG, citizens of India and Taiwan,
respectively, and residents of the United States of
America, do declare and say that:

We are co-inventors of the above-referenced
application for patent filed on July 24, 2000.

In the Office Action of December 17, 2002, claims 1-5,
8-9, 11-17, 18-22 and 47 are rejected under 35 U.S.C.
102(a) as being anticipated by Tvrdik et al. (J. Cell Biol.

149(3):707-717, May 2000; GenBank accession number AF170908). Additionally, claims 10 and 18 are also rejected under 35 U.S.C. 103(a) as being unpatentable over Tvrdik et al. (J. Cell. Biol. 149(3):707-717, May 2000; GenBank accession number AF170908). Further, claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tvrdik et al. (J. Cell Biol. 149(3):707-717, May 2000; GenBank accession number AF170908) in view of Lassner et al. (The Plant Cell 8:281-292, 1996).

We conceived and reduced to practice the invention claimed in claims 1-5, 8-24 and 47 prior to the publication date of the Tvrdik et al. reference, as evidenced by the following:

Attached Exhibit A illustrates that, prior to the May 2000 publication date of Tvrdik et al., we identified the nucleotide sequences of MELO4 and MELO7 as well as the encoded amino acid sequences of the proteins. We constructed two vectors (i.e., pRAE-84-4 and pRAE-87-4) using the cDNA sequence of MELO4 and cDNA sequence of MELO7, respectively, and cloned these two vectors.

Attached Exhibit B illustrates that, prior to the May 2000 publication date of Tvrdik et al., we transformed host cells (i.e., yeast cells) with the respective cloned vectors in order to express MELO4 and MELO7.

Attached Exhibit C illustrates that, prior to the May 2000 publication date of Tvrdik et al., we established the elongase activity of both the MELO4 and MELO7 polypeptide sequences.

In summary, the attached Exhibits establish that the claimed invention was conceived of and reduced to practice, prior to the publication date of Tvrdik et al. (i.e., May 2000).

Although all the dates on Exhibits A-C have been blocked out, such dates are prior to May 2000, with the exception of the witnessing dates which are subsequent to May 2000.

We declare further that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such

willful false statements may jeopardize the validity of the
instant application or any patent issuing thereon.

Respectfully submitted,

By: Amanda Eun Young Leonard
Amanda E. Leonard

Date: April 13, 2004

By: Pradip Mukerji
Pradip Mukerji

Date: April 13, 2004

By: Tapas Das
Tapas Das

Date: April 13, 2004

By: Yung-Sheng Huang
Yung-Sheng Huang

Date: Apr 13, 2004

By: Jennifer Thurmond
Jennifer Thurmond

Date: April 13th 2004

By: Jennifer M. Parker-Barnes
Jennifer M. Parker-Barnes

Date: April 14th 2004

APR. 15. 2004 9:38AM

ABBOTT LABS

NO. 3536 P. 6

EXHIBIT A

PROJECT TITLE Transgenic Lipids

Continued from Notebook 3681

Cont'd

Digest mm candidates into pUX242

4) mm4 (NcoI/DraI) + pUX242 (NcoI/HindIII)

6) mm6 (HpaI/NcoI) + "

7) mm7 (Sfi/NcoI) + pUX242 (NcoI/HindIII)

Transformation into Top10 cells (LB + Res (- 200ug/ml))

] end of vector +
end of gal

purified

2/28/04

Set up PCR to sequence PCR-SD-A2 & A3 (potentially 4)

1) PCR-SD-A2 R0424

2) " R0425

3) " R0764

4) " R0766

5) " R0765

6) PCR-SD-A3 R0424

7) " R0425

8) " R0764

9) " R0766

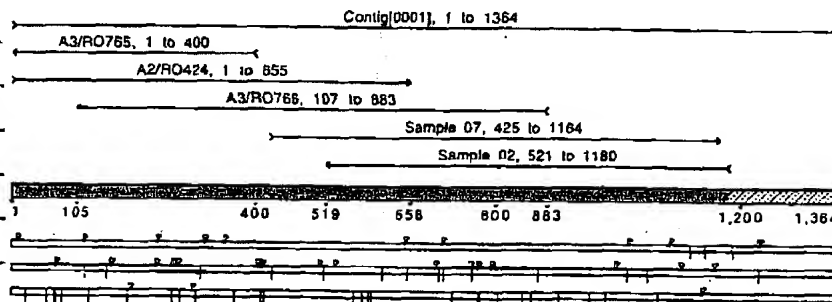
10) " R0765

11) control

This portion of the seq. ladder good for
either #2 or #3

Applied Biosystems

Lane	File Name	Sample Name
1	Sample 01	A2/R0424
2	Sample 02	A2/R0425
3	Sample 03	A2/R0764
4	Sample 04	A2/R0766
5	Sample 05	A2/R0765
6	Sample 06	A3/R0424
7	Sample 07	A3/R0425
8	Sample 08	A3/R0764
9	Sample 09	
10	Sample 10	
11	Sample 11	A3/R0766
12	Sample 12	A3/R0765
13	Sample 13	CONTROL

Contig[0005]
Sequencher™ "Untitled Project"

Project No.	Signature <u>Donanda E. Leonard</u>	Date
Witnessed By <u>Paul Johns</u>		Date

PROJECT TITLE

Transgenic Lipidase

PCR screen for lip from old plated colonies. } file
 also PCR screen for mm4 & mm7 of R424, 425 } 100



screened 11 colonies for
mm4 - pick all lip
 to grow lip for mp.

screened mm7 for mm7
 pick 1st & 6 to grow
lip for mp.

screened 11 for lip
 at R424/425 - no clones

also amplified cells from
 Q22 (lip) at R424/425

CDNA-poly band ~1.5 kb

~~PAGE 34~~

PAGE 34 4, 5, 6, 8, 10, 14 (P4X242 (New/Hond) + mm4 R424/425

PAGE 34 3, 4, 5, 6, 8, 9 (P4X242 (New/Hond) + mm7 R424/425

Start lip cultures of PAGE 34 & PAGE 37 to mp

Start mm7 - A2 up lip to mp

total lip vol 21 amp g total lip vol
 microsome lip vol microsome concentrate
 at mp

fill in mm5 7, 9a, 9b & 10, total lip vol ligate lip
 microsome lip concentrate down lip - Blunt

ligate mm7 - A2 lip at P4X242 (New/Hond) lip
 (New/Hond)

Transform into Top10 - also mm5 candidates in lip - Blunt

Project No.	Signature <u>Amal E. Leonard</u>	Date
Witnessed By <u>Paul Johns</u>		Page

PROJECT TITLE Transgenic Oil

Project No.	Signature <i>Amanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

2 ROSS PRODUCTS DIV

3815 - 23

PROJECT TITLE

Tranexamic Acid

110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

Project No.	Signature <i>Amenda E. Leonard</i>	Date
Witnessed By <i>Paul Johnson</i>		Date

PROJECT TITLE

Transgenic - Rat

<p>Sequence Range: 1 to 1200</p>		<p>1151.86</p>	
<p>100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120</p>	<p>120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140</p>	<p>140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160</p>	<p>160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180</p>
<p>180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200</p>		<p>200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220</p>	
<p>220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240</p>		<p>240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260</p>	
<p>260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280</p>		<p>280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300</p>	
<p>300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320</p>		<p>320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340</p>	
<p>340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360</p>		<p>360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380</p>	
<p>380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400</p>		<p>400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420</p>	
<p>420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440</p>		<p>440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460</p>	
<p>460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480</p>		<p>480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500</p>	
<p>500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520</p>		<p>520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540</p>	
<p>540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560</p>		<p>560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580</p>	
<p>580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600</p>		<p>600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620</p>	
<p>620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640</p>		<p>640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660</p>	
<p>660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680</p>		<p>680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700</p>	
<p>700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720</p>		<p>720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740</p>	
<p>740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760</p>		<p>760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780</p>	
<p>780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800</p>		<p>800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820</p>	
<p>820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840</p>		<p>840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860</p>	
<p>860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880</p>		<p>880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900</p>	
<p>900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920</p>		<p>920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940</p>	
<p>940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960</p>		<p>960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980</p>	
<p>980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000</p>		<p>1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020</p>	
<p>1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040</p>		<p>1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060</p>	
<p>1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080</p>		<p>1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100</p>	
<p>1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120</p>		<p>1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140</p>	
<p>1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160</p>		<p>1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180</p>	
<p>1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200</p>		<p>1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220</p>	

Amplified 1151.86
832 - filled - in
11500 - cloud in
discovered at 11500
approximately 2.5-6
piece was isolated
cloud in 11500000
may be able to improve
expression of clone in
for the gene - seems to
protein - planned in
cells are smaller.
could check 11500000
first 2' of stop.
Single primer used from
11500000. since 11500000
is at 3' end of 11500000
piece. No overlap
possible.

Project No.	Signature	Date
Witnessed By	<i>Ramanda E. Leonard</i>	
<i>Paul Johns</i>		Date

APR. 15. 2004 9:41AM

ABBOTT LABS LABORATORIES

NO. 3536 P. 12

PRO. TITLE Immunogenic Lipid 2

Amanda E. Leonard
08:10 AM

To: Emil G. Bobik/COLUMBUS/ROSS PRODUCTS DIVISION/US,
cc: Vic Huang/COLUMBUS/ROSS PRODUCTS DIVISION/US,
Subject: Sample descriptions

Hi Emil,
Here's the list:

- 1) 334(pRAE-80) LA 8.75ul
- 2) 334(pYX242) LA
- 3) 334(pRAE-80) DGLA 9.5ul
- 4) 334(pYX242) DGLA
- 5) 334(pRAE-80) ADA 8.3ul
- 6) 334(pYX242) ADA
- 7) 334(pRAE-80) ALA 3.5ul
- 8) 334(pYX242) ALA
- 9) 334(pRAE-80) EPA 30.2ul
- 10) 334(pYX242) EPA
- 11) 334(pRAE-80/pRAE-73) ALA
- 12) 334(pYX242/pYES2) ALA
- 13) 334(pRAE-80/pRAE-73) LA
- 14) 334(pYX242/pYES2) LA
- 15) 334(pRAE-80/pRAE-73) STA 6.9ul
- 16) 334(pYX242/pYES2) STA

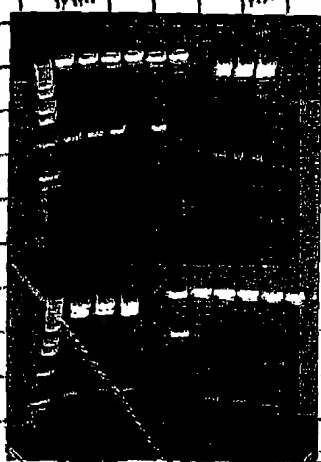
We're also interested in detecting delta4-desaturated 16:1 in all of the samples.

Thank!
Amanda

Pellet yeast cultures &
submit for full profile
analysis

mini-prep just 10 ul
cultures for pRAE-80
8.5 & 7

Digest up enzymes to
confirm insert
Exp. pRAE-80 - since
closed ^{DR2} ~~trans~~ / ~~trans~~ - ~~trans~~
insert into ~~vector~~ / ~~vector~~
cut vector



cut pRAE-80 (mm) w/ XbaI - expecting 2.9 kb
cut pRAE-80 (mm) w/ EcoRI - expecting 2.2 kb
cut pRAE-80 (mm) w/ EcoRI - expecting 2.2 kb

main primers to sequence these
clones.

Transformation into SC334
pRAE-80-1, pRAE-80-1 & pRAE-80-1
Also streaks 334 (pYX242)

Need to check LA, AA, ADA, ALA, STA, EPA & DPA instead of cut

Project No.	Signature Amanda E. Leonard	Date
Witnessed By Paul Johns		Date

APR. 15. 2004 9:42AM

ABBOTT LABS

NO. 3536 P. 13

EXHIBIT B

3 APR. 15. 2004 9:42AM

ABBOTT LABS PRODUCTS DIVISION
LABORATORIES

NO. 3536 P. 14

PROJECT TITLE Transgenic Lipid

To: Emil G. Bobik/COLUMBUS/ROSS PRODUCTS DIVISION/US,
cc: Vic Huang/COLUMBUS/ROSS PRODUCTS DIVISION/US,
Subject: Sample descriptions

Hi Emil,
Here's the list:

- | | | | |
|-----|----------------------|------|--------|
| 1) | 334(pRAE-80) | LA | 8.75ul |
| 2) | 334(pYX242) | LA | |
| 3) | 334(pRAE-80) | DGLA | 9.5ul |
| 4) | 334(pYX242) | DGLA | |
| 5) | 334(pRAE-80) | ADA | 8.3ul |
| 6) | 334(pYX242) | ADA | |
| 7) | 334(pRAE-80) | ALA | 3.5ul |
| 8) | 334(pYX242) | ALA | |
| 9) | 334(pRAE-80) | EPA | 20.2ul |
| 10) | 334(pYX242) | EPA | |
| 11) | 334(pRAE-80/pRAE-73) | ALA | |
| 12) | 334(pYX242/pYES2) | ALA | |
| 13) | 334(pRAE-80/pRAE-73) | LA | |
| 14) | 334(pYX242/pYES2) | LA | |
| 15) | 334(pRAE-80/pRAE-73) | STA | 6.9ul |
| 16) | 334(pYX242/pYES2) | STA | |

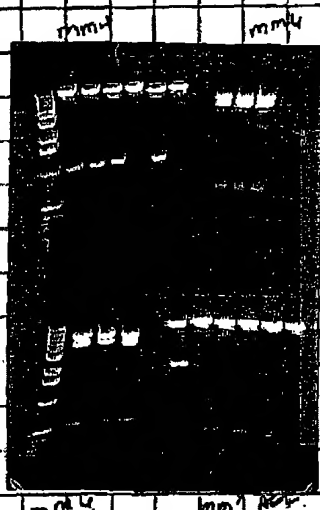
We're also interested in detecting delta4-desaturated 16:1 in all of the samples.

Thanks!
Amanda

Pellet yeast cultures &
submit for full profile
analysis

mini-prep just 10 ul
cultures for pRAE-80,
etc 5 & 7

Digest up enzymes to
confirm insert
Exp. pRAE-80 - correct
cloned ^{DNA} template/pRNA cut
insert into ^{pRAE} linear/vec
cut vectors



~~cut pRAE-80~~

cut pRAE-84 (mm) w/ XhoI - expecting ~9.4kbp
cut pRAE-86 (mm) w/ EcoRI/PstI - expecting ~4.20kbp
cut pRAE-87 (mm) w/ EcoRI - expecting ~5.5kbp

main primers to sequence these
clones.

Transform into SC334

pRAE-84-4, pRAE-86-1 & pRAE-87-4

Also streaks 334(pYX242)

Need to check GLA, AA, ADA, ALA, STA, EPA or DPA instead of LA

Project No.	Signature <i>Amanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

APR. 15. 2004 9:42AM

ABBOTT LABS

NO. 3536 P. 15

EXHIBIT C

PROJECT TITLE Transgenic Oil

Fatty Acid Profile

Amide	Sample	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219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PROJECT TITLE

Transgenic Oil

Fatty Acid Profile

[illegible]

Fatty Acid Profile

[illegible]

End Betab 100.2

Lipid Research Lab

Lipid Research Lab

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Page 8 of 12

Project No.	Signature <i>Amanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

3610 - 16

ABBOTT LABS, PRODUCTS DIVISION
ABBOTT LABORATORIES

NO. 3536 P. 18

PROJECT TITLE

Trametes Bir

Fatty Acid Profile

Armada Lionard	3449708477	AA	AA	3449708477	AA	AA	3449708477	AA	AA
	9	10	11	11	11	11		11	11
mailed	LRL-4112	LRL-4113	LRL-4114	LRL-4115	LRL-4116	LRL-4117	LRL-4118	LRL-4119	LRL-4120
	87200001	87200002	87200003	87200004	87200005	87200006	87200007	87200008	87200009
	18.27	9.45	11.96	10.33	14.10	3.15	5.74	5.38	3.27
G10:0	6.04	9.47	10.33	14.10	3.15	5.74	5.38	3.27	1.12
G12:0						2.12	1.85	1.32	0.46
G13:0						0.90	0.83	0.46	25.22
G14:0						40.87	38.07	25.22	28.73
G15:0						63.87	50.12	28.73	0.39
G16:0						0.65	0.51	0.39	0.22
G17:0						0.19	0.23	0.26	
G18:0									
G19:0									
G20:0						5.24	6.22	4.33	22.36
G21:0						29.55	27.08	17.02	0.40
G22:0						2.82	2.72		
G23:0						0.38	0.31		
G24:0									
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Lipid Research Lab

Fatty Acid Profile

[illegible]

Lipid Research Lab

Project No.	Signature <i>Ramanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

Transgenic Pig

Fatty Acid Profile

Parameter	34Q-PAE-84-4	34Q-PAE-85-1	34Q-PAE-87-4
Location	EPA	EPA	EPA
	14	18	18
13A	14	18	18
13B	14	18	18
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13H	14	18	18
13I	14	18	18
13J	14	18	18
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13Q	14	18	18
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27G	14	18	18
27H	14	18	

Fatty Acid Profile

Sample Location	31Apr72a2	28Apr68b-4a	24Apr68a-9	24Apr68a7-4
	EPA	EPA	BPA	BPA
	19	14	14	16
	LRL-4116	LRL-4117	LRL-4116	LRL-4119
	0177101	0177101	0177101	0177101
	grams for gram body acid			
C10-0	9.52	2.50	0.35	1.12
C12-0	4.78	3.42	4.86	3.47
C13-0				
C14-0	2.63	2.64	2.76	2.73
C14-1	0.93	1.02	0.99	1.15
C15-0	0.48	0.48	0.52	0.55
C16-0	21.92	20.74	20.42	17.21
C18-1w7	30.65	33.62	27.76	26.58
C18-1w5	0.33	0.34	0.30	0.44
C16-2				
C17-0	0.14	0.11	0.18	0.16
C16-3				
C18-4				
C18-0	2.58	2.59	3.61	2.77
C18-1w7	15.91	16.33	15.88	16.66
C18-1w9	1.33	1.49	1.49	1.60
C18-1w5	0.13	0.14	0.15	0.29
C18-2w6	0.07	0.06		
C18-3w6				
C18-3w3				
C18-4w3				
C20-0	0.19	0.16	0.25	0.22
C20-1w11				0.10
C20-1w9	0.12	0.14	0.23	0.35
C20-1w7		0.05	0.15	0.94
C20-2w6				
C20-3w6				
C20-4w6				
C20-5w3		0.24		0.22
C20-6w3				
C20-8w3	0.69	3.02	9.92	4.58
C22-0	0.84	0.95	0.96	0.74
C22-1w11				
C22-1w6	0.58	0.52	0.84	0.67
C22-1w7				
C22-4w6				
C22-5w6				
C22-8w3				
C24-0	0.69	0.86	1.05	0.89
C22-5w3				
C24-1w9				
C24-4w677				
C24-5w377				
Total	100	100	100	100

2008

Lipid Research Lab

Lipid Research Lab

Project No.	Signature <i>Ronanda E. Leonard</i>	Date <i>11/1/01</i>
Witnessed By <i>Paul Johns</i>		Date

38 APR. 15. 2004

ABBOTT LABS **JCTS DIVISION**
LABORATORIES

NO. 3536 P. 20

PROJECT TITLE Transgenic Oil

Fatty Acid Profile

Accession	31 May 78 (40)	25 Sep 80 (24-4)	31 Aug 82 (26-1)	29 Dec 82 (21-4)
Location	ADA	ADA	ADA	ADA
	17	18	18	20
	UNL-4719	UNL-4711	UNL-4712	UNL-4713
	220P1YK1	21F1B11	42F1P101	41ZP2001
		eg sample		
C10-0	18.50	23.98	25.75	12.15
C12-0	9.84	11.75	15.59	7.77
C13-0				
C14-0	3.98	2.36	5.34	2.75
C14-1	1.94	1.09	1.78	1.55
C15-0	0.53	0.23	0.56	0.39
C16-0	24.62	19.27	39.84	14.93
C18-1w7	37.74	22.78	50.70	21.03
C16-1w6	0.48	0.21	0.47	0.51
C16-2				
C17-0	0.21	0.19	0.23	0.17
G16-3				
C16-4				
C16-0	3.65	3.60	7.09	2.55
C18-1w7	18.55	17.04	34.35	12.78
C18-1w6	1.76	1.77	3.51	10.39
C18-1w6			0.33	0.34
C18-2w6				
C16-2w6				
C18-3w3				
C18-4w3				
G20-0	0.42	0.22	1.56	0.16
C20-1w11		0.94		0.29
C20-1w6	0.19	0.21	0.46	0.40
C20-1w7		0.47	0.60	0.74
C20-2w6				
C20-3w6				
C20-4w6				
C20-5w3				
C20-6w3				
C22-0	1.64	1.16	1.89	1.04
C22-1w11				
C22-1w6	1.34	1.41	1.52	1.32
C22-1w7				
C22-4w6	32.17	35.25	51.29	24.76
C22-5w6				
C22-4w3				
C24-0	1.88	1.82	2.50	1.94
C22-5w3				
C24-1w9				
C24-4w6???		3.56	0.78	
C24-5w3??				
Inlay	158	148	348	147

Fatty Acid Profile

[illegible]

Lipid Research Lab

Lipid Research Lab

Page 11 of 12

12 Bob's

Project No.	Signature <i>Barbara E. Leland</i>	Date
Witnessed By <i>Paul Johns</i>		Date

